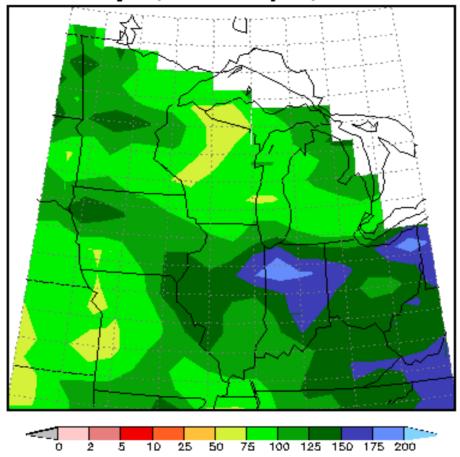
# DNR Drought Assessment Committee Meeting July 29, 2003

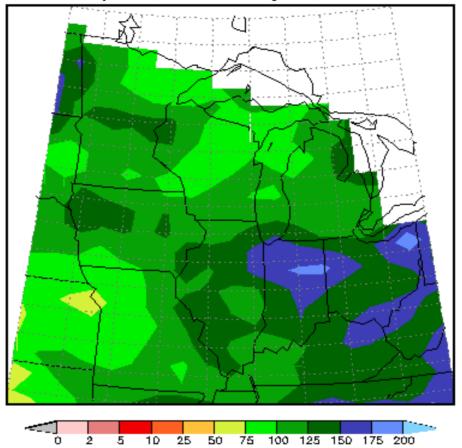


#### Total Precipitation Percent of Mean May 29, 2003 to July 28, 2003



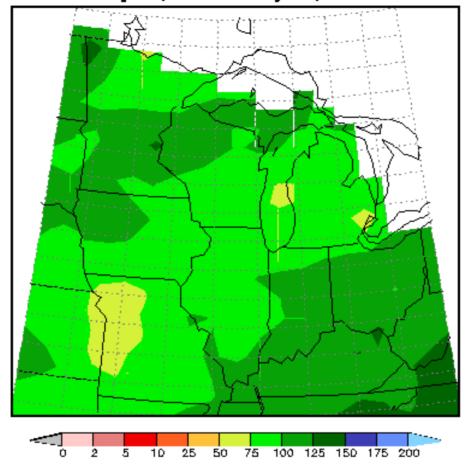
Midwestern Regional Climate Center Illinois State Water Survey Champaign, Illinois

#### Total Precipitation Percent of Mean April 29, 2003 to July 28, 2003



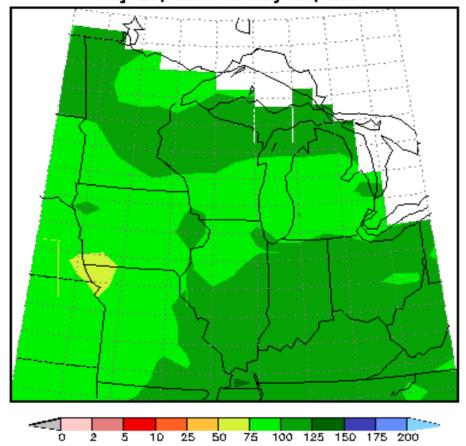
Midwestern Regional Climate Center Illinois State Water Survey Chempaign, Illinois

#### Total Precipitation Percent of Mean July 29, 2002 to July 28, 2003



Midwestern Regional Climate Center Illinois State Water Survey Champaign, Illinois

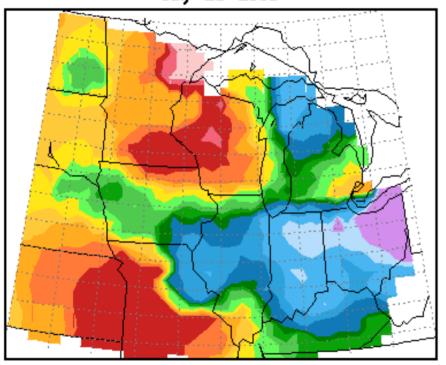
#### Total Precipitation Percent of Mean July 29, 2001 to July 28, 2003



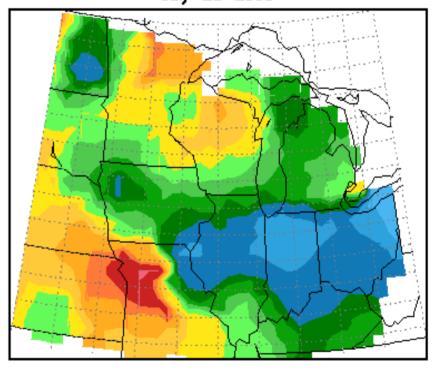
Midwestern Regional Climate Center Illinois State Water Survey Champaign, Illinois

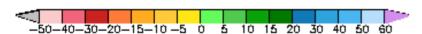
# CURRENT SOIL MOISTURE

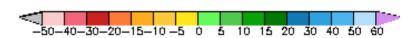
Current Soil Moisture Deviation (%). Depth = 0-12 July-28-2003



Current Soil Moisture Deviation (%). Depth = 0-72 July-28-2003

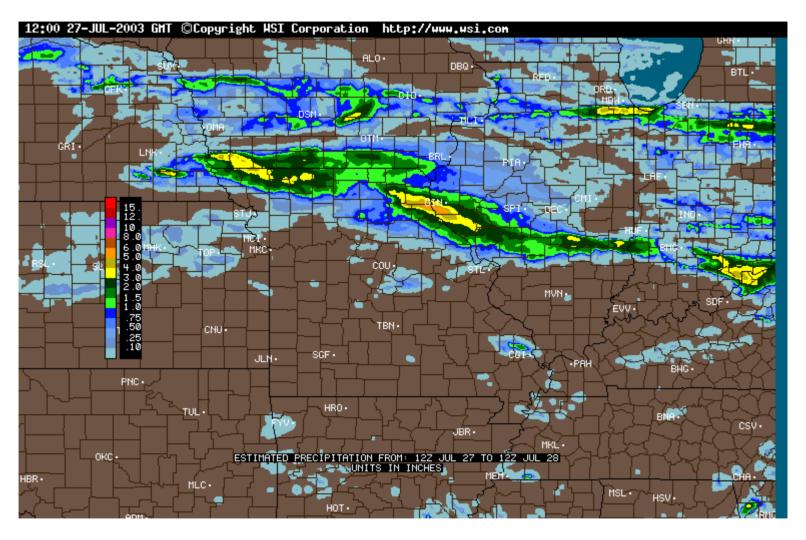


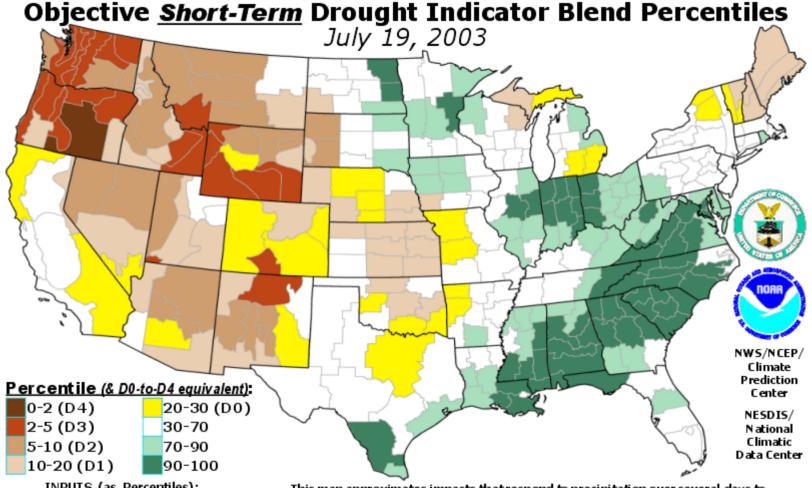




Midwestern Regional Climate Center Illinois State Water Survey Champaign, Illinois Midwestern Regional Climate Center Illinois State Water Survey Champaign, Illinois

# Estimated Rainfall 12Z to 12Z July 28 / Intellicast





#### INPUTS (as Percentiles):

35% Palmer Z-Index 25% 3-Month Precipitation 20% 1-Month Precipitation 13% CPC Soil Model 7% Palmer Drought Index

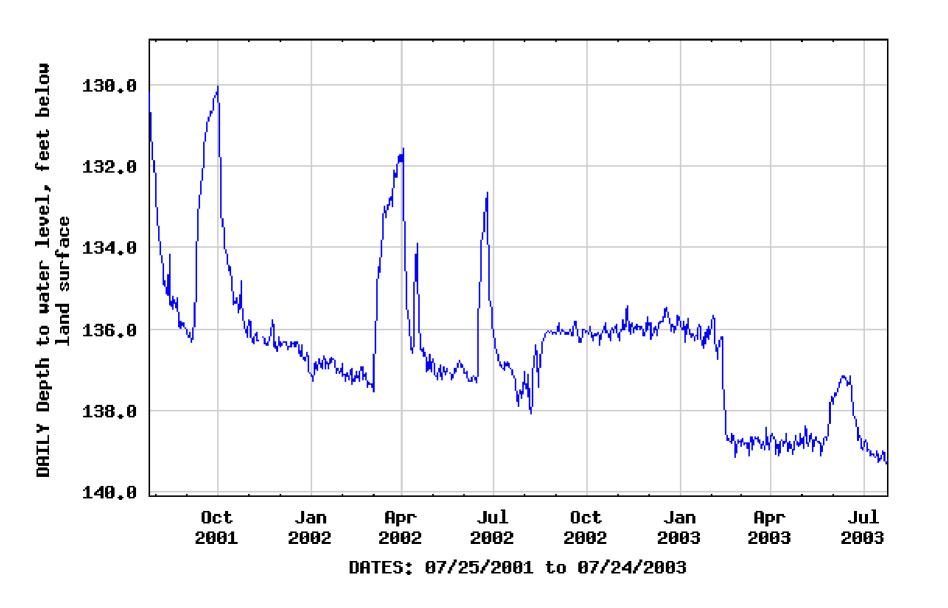
This map approximates impacts that respond to precipitation over several days to a few months, such as agriculture, topsoil moisture, unregulated streamflows, and most aspects of wildfire danger.

This map is based on preliminary climate division data. Local conditions and/or final data may differ. The relationship between indicators and impacts varies with location and season. Do not interpret this map too literally. See full product description for more details.

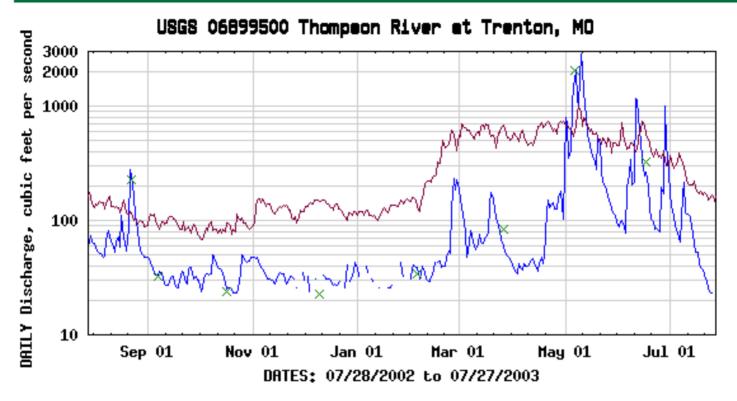
Mon., July 28, 2003 11:20ET Q.



## MODNR Gallatin Water Supply Monitoring Well



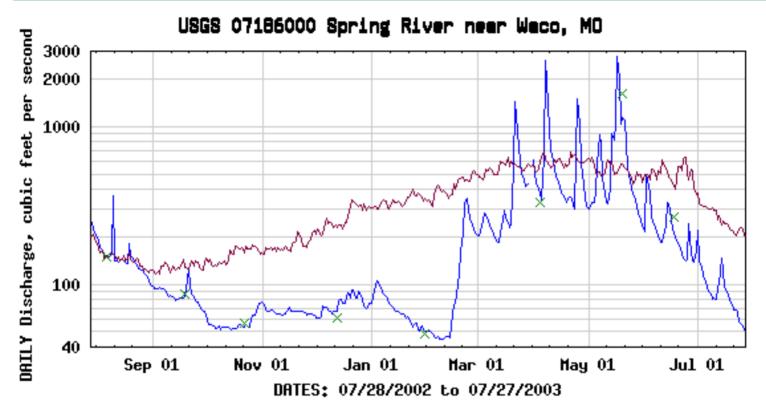




#### **EXPLANATION**

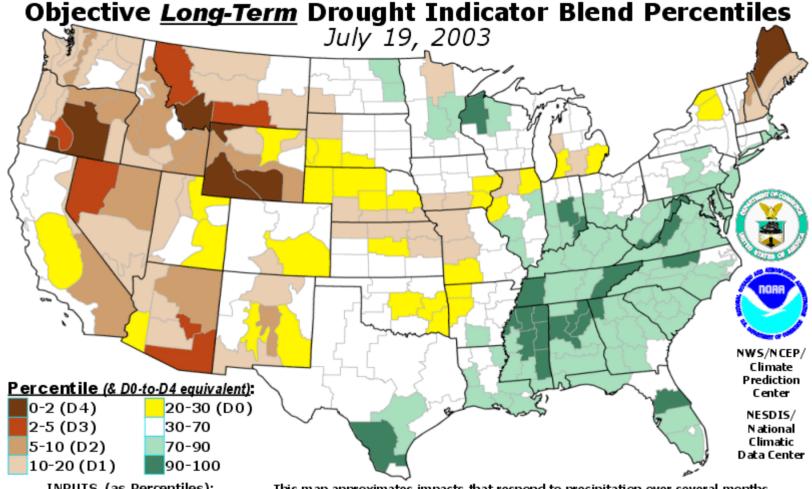
- DAILY MEAN DISCHARGE
- MEDIAN DAILY STREAMFLOW BASED ON 74 YEARS OF RECORD
- × MEASURED Discharge





#### **EXPLANATION**

- DAILY MEAN DISCHARGE
- MEDIAN DAILY STREAMFLOW BASED ON 78 YEARS OF RECORD
- × MEASURED Discharge



INPUTS (as Percentiles):

25% Palmer Hydrologic Index 20% 24-Month Precipitation 20% 12-Month Precipitation 15% 6-Month Precipitation

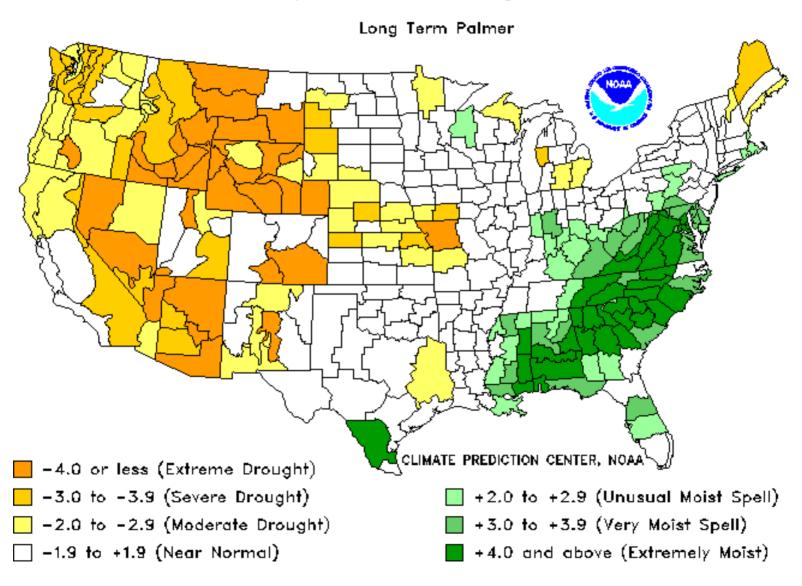
10% 60-Month Precipitation 10% CPC Soil Model

This map approximates impacts that respond to precipitation over several months to a few years, such as reservoir content, groundwater depth, and lake levels.

This map is based on preliminary dimate division data. Local conditions and/or final data may differ. The relationship between indicators and water supplies can vary markedly with location, season, source, and management practices. Do not interpret this map too literally. See full product description for more details.

#### Drought Severity Index by Division

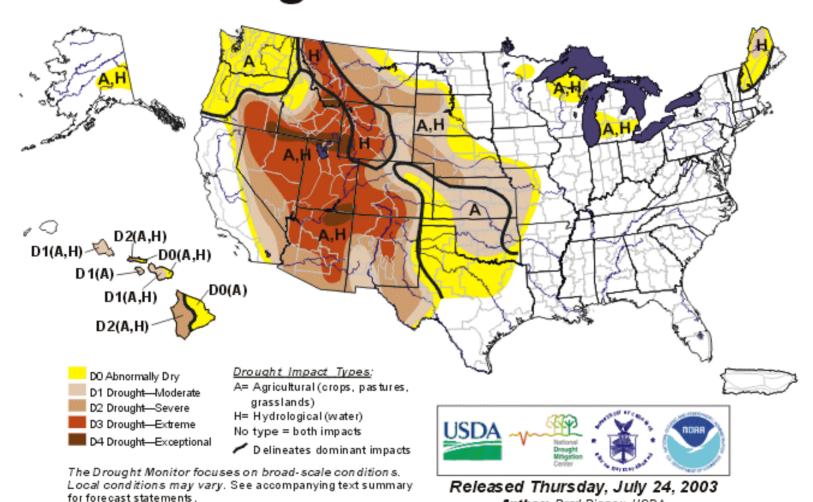
Weekly Value for Period Ending 19 JUL 2003



# U.S. Drought Monitor

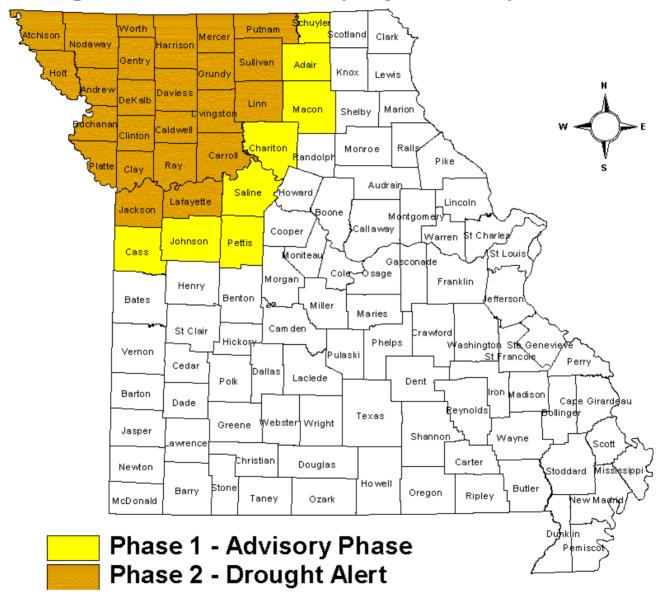
July 22, 2003 Valid 8 a.m. EDT

Author: Brad Rippey, USDA

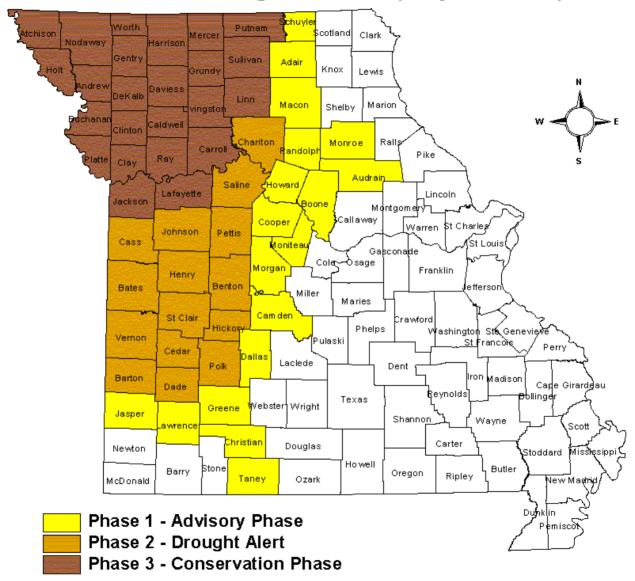


http://drought.unl.edu/dm

### **Drought Condition Status (May 20, 2003)**



### Recommended Drought Status (July 25, 2003)

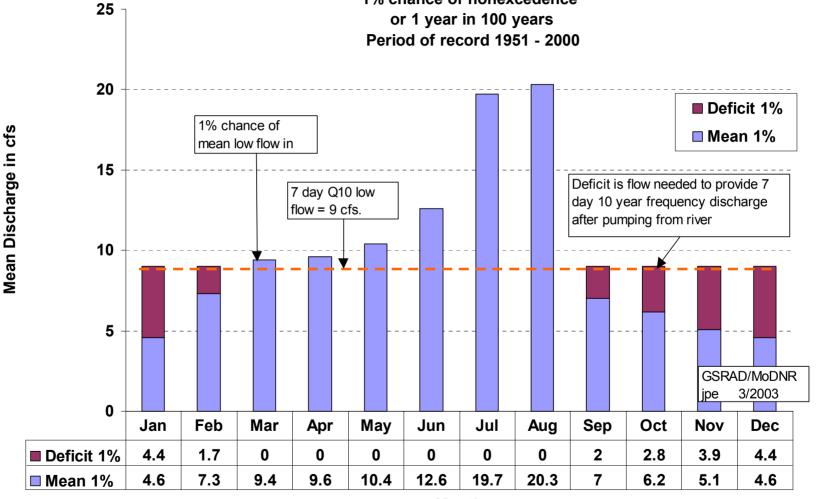




fn = freq-defi

Trenton, Missouri
Low Flows

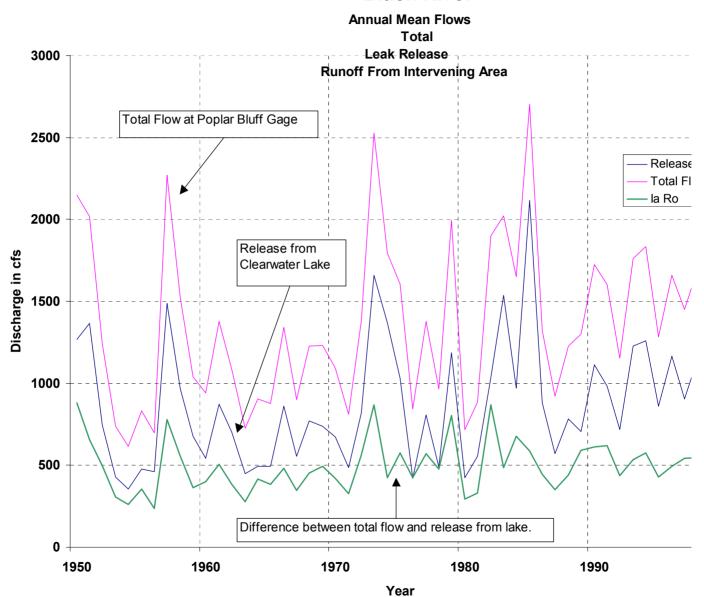
1% chance of nonexcedence
or 1 year in 100 years
Period of record 1951 - 2000



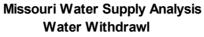
Month

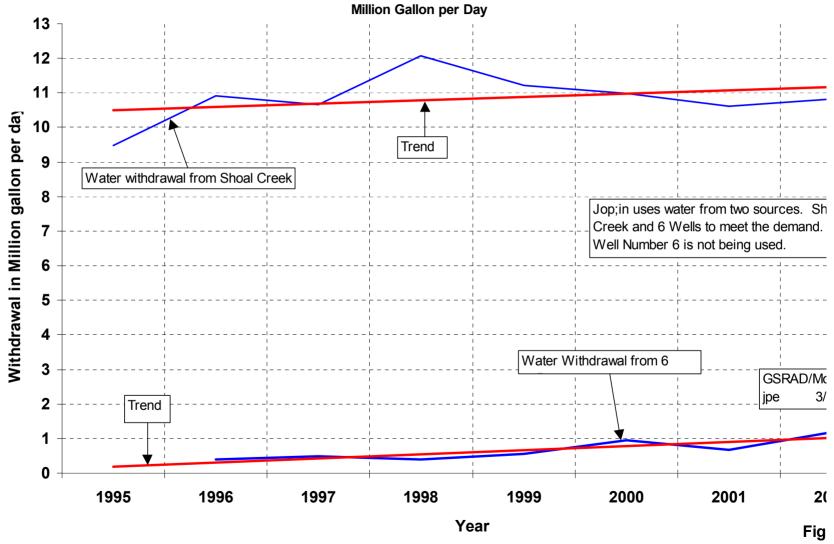
Figu

#### **Black River**



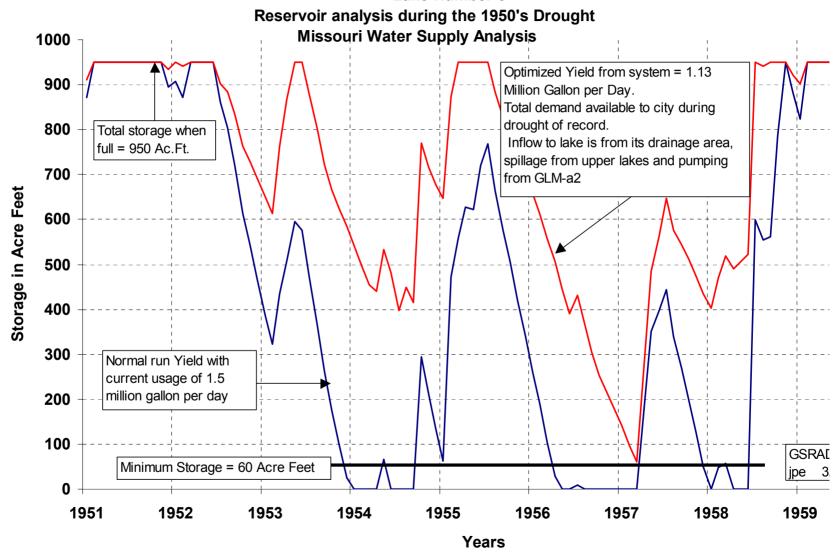






#### Cameron, Missouri

Lake Number 3



# Eagleville Reservoir Winter 2002-2003



# **EAGLEVILLE LAKE** LOCATION MAP Harrison County Elevation Area Volume MISSOURIX (feet) Table 23. Lake elevations and respective surface areas and volumes. Top of spillway structure is 991.3 feet. Elevations referenced to North American Vertical Datum 1988 (NAVD 88). 200 300 400 FEET 120 METERS EXPLANATION WATER SURFACE—Shows approximate elevation of water surface, May 28, 2003 (actual is 988.8 feet, table 23). U. S. GEOLOGICAL SURVEY REFERENCE MARKER—Chiseled arrow located on west side of spillway structure. Elevation 1004.6 feet. In cooperation with

Missouri Department of Natural Resources

#### MARCELINE LAKE

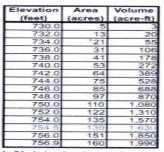
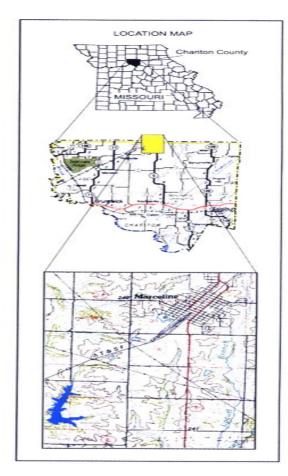


Table 21. Lake elevations and respective surface areas and volumes. Top of spill-way structure is 756.9 feet. Elevations referenced to North American Vertical Datum 1988 (NAVD 88).







BATHYMETRIC CONTOUR—Shows altitude of the reservoir bottom. Contour interval 2 feet.

WATER SURFACE—Shows approximate elevation of water surface, May 19, 2003 (actual is 754.5 feet, table 21).

U. S. GEOLOGICAL SURVEY REFERENCE MARKER—Chiseled arrow located on northwest side of intake tower. Elevation 764.1 feet.





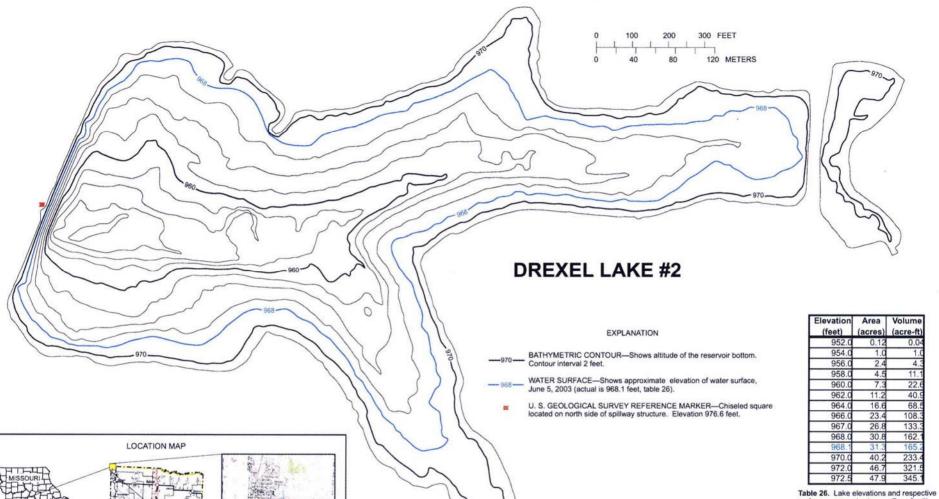


Table 26. Lake elevations and respective surface areas and volumes, Top of spillway structure is 972.5 feet. Elevations referenced to North American Vertical Datum 1988 (NAVD 88).



ounty



of Natural Resour

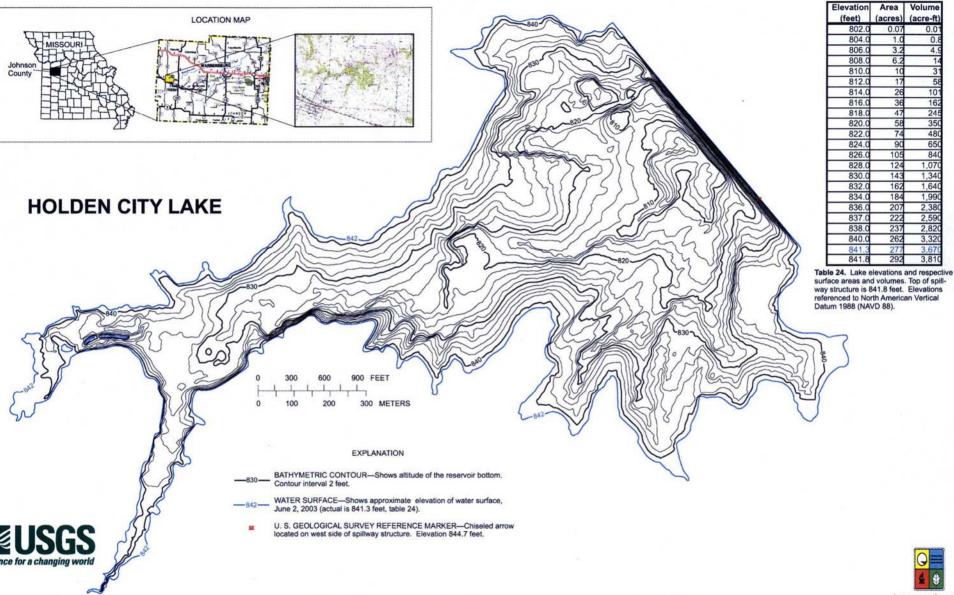


Figure 24. Bathymetric map and table of areas/volumes of the Holden City Lake near Kingsville, Missouri.

In cooperation wi Missouri Departme of Natural Resource